

US EPA ARCHIVE DOCUMENT

IMPLEMENTING VERIFIABLE SCHOOL IPM PROGRAM IN THE ORLEANS PARISH SCHOOL SYSTEM, A COLLABORATIVE EFFORT

CITY OF NEW ORLEANS MOSQUITO, RODENT, AND TERMITE CONTROL BOARD

PROJECT PERIOD: MAY 2012 – NOVEMBER 2014 | FUNDING: \$113,570

ACCOMPLISHMENTS ON OBJECTIVES

REDUCE HUMAN EXPOSURE, PARTICULARLY IN CHILDREN, TO HARMFUL PESTS BY 60%

- Pest logs and posters of IPM principles placed throughout participating schools
- Workshops and seminars conducted for parents and community members

REDUCE HUMAN AND ENVIRONMENTAL EXPOSURE TO PESTICIDES BY 40%

- ~ 10,000 children impacted
- Verifiable IPM programs in all pilot schools
 - Henry Schaumburg Elementary
Pest-proofed school - closed external openings, improved organization/decreased clutter, and improved sanitation.
 - John McDonogh High
Before being closed for renovations, IPM reduced pest problems while limiting pesticide exposure to such a great degree that it was covered by National Public Radio, and inspired a visit from EPA AA Jim Jones.
 - Mildred Osborne Elementary
Excellent example proactive pest management. Sanitation efforts and overall good school condition kept pests to a minimum and resulted in little pesticide use.
 - Federal City High
Add-on to original project. Developed and began implementing IPM Plan. Eliminated termites and began pest monitoring.
- All schools
 - baseboard treatments eliminated
 - only targeted pesticide applications made
 - baits and insect growth regulators preferred and used whenever possible
 - IPM coordinators became licensed pesticide applicators
 - pest pressure monitored and recorded
- Pesticide use and pest monitoring data currently being summarized

VERIFIABLE IPM IMPLEMENTED IN ALL ORLEANS PARISH SCHOOLS, BRINGING THEM INTO COMPLIANCE WITH THE STATE SCHOOL IPM LAWS

- Model IPM plan, meeting state requirements, drafted for Orleans Parish Schools
- Trainings conducted for school staff, teachers, students, administrators, and pest management professionals
- Workshops, seminars, and advanced trainings offered to local school officials, Division of Health and Hospital sanitarians, and pest control operators
- On-site trainings with custodial and kitchen staff at demonstration schools
- Two "Write Your IPM Plan" workshops conducted
- Growing number of schools requesting assistance and foundation for reaching all schools has been developed.
- Training will be developed and offered to IPM coordinators to become certified school employee applicators.
- As the New Orleans school system became increasingly fragmented over the life of the project, the goal of reaching all schools was unable to be met. However, the foundation has been created to continue efforts.

SELLING THE IPM MESSAGE

- The New Orleans Mosquito and Termite Control Board (NOMTCB) continues to sell the message of IPM to the pest control industry, school and city officials. The Board received the Southern IPM Center's IPM Implementer Award, which was presented in front of the New Orleans City Council. The Council meetings are recorded and broadcast on television throughout the New Orleans' market, with the potential to reach over 400,000 people. More importantly, it provided the opportunity to educate community leaders about integrated pest management, the importance of using IPM, and that the Board is a leader in the local market. The presence of Thomas Cook (EPA) and Jim VanKirk (Southern IPM Center Director) provided a strong message of the importance of IPM. It is critical to *sell* the message to the local policy makers.

ESTABLISHING NOMTCB AS A RESOURCE

- Serve as a resource for schools and the pest control industry
- Provide training in New Orleans and speak at training events throughout Louisiana
- Inspect schools campuses and provide information to remediate pest problems
 - Assisted Recovery School District with bat removal at Benjamin Bennecker Elementary School in March 2014. Inspected the school, removed some bats, and assisted the school in obtaining quotes to have the entire bat colony removed.

THE MIDWEST UNITED STATES CONSORTIUM – EXPANDING VERIFIABLE INTEGRATED PEST MANAGEMENT IN PUBLIC SCHOOLS

IMPROVING KIDS ENVIRONMENT, INC.

PROJECT PERIOD: MAY 2012 – JANUARY 2015 | FUNDING: \$249,936

ACCOMPLISHMENTS ON OBJECTIVES

EXPAND EXISTING IPM COALITIONS IN INDIANA AND OHIO TO INCLUDE CRITICAL CHANGE AGENTS AND
HOLD TRAIN-THE-TRAINER EVENTS TO BUILD IPM TECHNICAL ASSISTANCE CAPACITY

EXPAND THE EXISTING SCHOOL IPM COALITIONS

- Ohio Coalition created – blog added to the OSU website to facilitate discussion
- School IPM Coalition membership increased by ~100 members

CONVENE SEMI-ANNUAL SCHOOL IPM COALITION MEETINGS IN IN AND OH

COMMUNICATION THROUGH NEWSLETTERS AND TELECONFERENCES

- Built email list for superintendents and facility managers/maintenance supervisors for all IN school districts and all OH school district superintendents
- Pest Presses distributed regularly
- Videos and posters produced and distributed

INCREASE SCHOOL FACILITY MANAGERS' KNOWLEDGE OF SAFER PEST MANAGEMENT PRACTICES
THROUGH EDUCATION MATERIALS AND COALITION-SPONSORED EDUCATIONAL WORKSHOPS

WORKSHOPS AND PRESENTATIONS

- Held 5 IPM workshops in Indiana and 3 in Ohio
- Presented on School IPM in 5 workshops sponsored by the Ohio Department of Health
- Made numerous presentations in both states on IPM and pesticide use in schools

SCHOOL IPM MATERIALS DISTRIBUTION

- **Demonstration schools** received a tool kit, camera, *Common Pest Found in Schools and Day Care Centers*, and implementation tools (varied but, at a minimum, included monitoring stations, rodent bait stations and pesticide applications, when needed; others received door sweeps, bee suits, caulk, steel wool and insulation.)
- **Coalition members** received newsletters, pest presses, information about trainings or webinars, and IPM and IPM/Asthma posters
- **Training participants** received a flash drive with 12 months of Pest Presses, construction guidance documents, sample IPM contracts, *Sensible Steps to Healthier School Environments*, and IPM posters

SUCCESSFULLY PILOT IPM IN 10 DEMONSTRATION SCHOOLS IN INDIANA AND OHIO, LEADING TO THE EVENTUAL ADOPTION OF FULL-SCALE, VERIFIABLE IPM PRACTICES THAT REDUCE PEST COMPLAINTS AND PESTICIDE USE BY 70-90% IN THOSE DISTRICTS WITHIN THREE YEARS.

TEN DEMONSTRATION SCHOOLS IN 9 DISTRICTS (BOLD INDICATES FULL-SCALE, VERIFIABLE IPM; NON-BOLD INDICATES MEDIUM TO MEDIUM-HIGH IPM)

INDIANA

- **Franklin Township:** 70% reduction in pesticide applications; 75% reduction in pest complaints
- **Mooreville:** 90% reduction in pesticide applications; 88% reduction in pest complaints
- **Center Grove:** 70% reduction in pesticide applications; 75% reduction in pest complaints
- **Sheridan:** 90% reduction in pesticide applications; 70% reduction in pest complaints
- Brownsburg: 80% reduction in pesticide applications; 66% reduction in pest complaints

OHIO

- Eakin Elementary (Columbus City Schools): 50% reduction in legal pesticide applications, 100% reduction in illegal pesticide applications and 80% reduction in pest complaints
- Africentric Elementary (Columbus City Schools): 30% reduction in legal pesticide applications; 100% reduction in illegal pesticide applications; 50% reduction in pest complaints
- Reynoldsburg: 25% reduction in pesticide applications; 30% reduction in pest complaints
- **Western Reserve:** 40% reduction in exterior pesticide applications (no indoor applications in 20+ years); 25% reduction in pest complaints; achieved IPM Star Certification
- Brookville: 75% reduction in pesticide applications; 60% reduction in pest complaints

OVERALL

- 7 of 9 pilot districts indicate that they intend to implement IPM district-wide
Indiana (27 schools; 14,294 students): Center Grove CSC (8 schools; 7,796 students), Franklin Township CSC (9 schools; 8,748 students), Mooreville Consolidated Schools (7 schools; 4,486 students) and Sheridan CSC (3 schools; 1,060 students);
Ohio (117 schools; 54,560 students): Columbus City Schools (111 schools; 53,540 students), Western Reserve Schools (3 schools; 600 students), and Brookville (3 schools; 420 students).

PARTICIPATE IN THE DEVELOPMENT OF NATIONAL PEST MANAGEMENT SOFTWARE, TRAINING MODULES, MEASUREMENT INSTRUMENTS AND STANDARDS LEADING TO NATIONALLY RECOGNIZED MEASUREMENT, VERIFICATION AND CERTIFICATION OF IPM IN THE SCHOOL ENVIRONMENT

- IPM Cost Calculator used by 4 Indiana demonstration schools
- Ohio school began IPM Star Certification and using *IPM Cost Calculator* and developed a series of short school IPM films

IMPACTS

- Increased School IPM Coalition membership by ~100
- Significant reductions in pesticide applications and pest complaints in pilot schools
- 7 of 9 pilot districts indicate that they intend to implement IPM district-wide
- ~68,800 students impacted in 134 schools

EXPANDING IPM IN WISCONSIN: USING THE CESA MODEL

COOPERATIVE EDUCATIONAL SERVICE AGENCY (CESA) 10

PROJECT PERIOD: MAY 2012 – APRIL 2014 | FUNDING: \$49,205

ACCOMPLISHMENTS ON OBJECTIVES

COLLECT BEHAVIORAL DATA FROM ALL CURRENT PARTNER DISTRICTS (84) ON IPM ACTIVITIES PRIOR SITE ACTIVITIES AND COMPARE IT WITH DATA COLLECTED IN MONTH 24 OF THE PROJECT

- Completed with 101 respondents (17 more districts than the goal). Information critical in determining the best strategy for IPM implementation.

INCREASE DISTRICTS CONTRACTING WITH CESA 10 TO OBTAIN IPM SERVICES

- Established contracts with 26 new districts due, in part, to the IPM services offered.
- CESA 10 now has direct access to >25% of Wisconsin school districts.

REDUCE PESTICIDE USE IN TARGETED SCHOOL DISTRICTS BY IMPLEMENTING VERIFIABLE IPM

- Worked to facilitate chemical inventories, chemical removals, safety data sheet generation, training, hazard communication program development, as well as making chemical inventories available online. This work is continuing.
- Education and communication efforts led many districts to remove chemicals they are not licensed to apply and/or no longer use.
- Maintenance/custodial and all staff trainings on IPM were held throughout the state with >50% of contracted districts received training prior to the 2013/2014 school year.
- Additional IPM training by CESA 10 or online by SafeSchools Training, a CESA 10 partner, is always available.

REDUCE PESTICIDES STORED IN SCHOOLS AND RELEASED INTO THE ENVIRONMENT

- Through education and adherence to the Wisconsin regulations, many pesticides were removed through Wisconsin Clean Sweep Programs, especially in districts without a certified applicator on staff.
- During the IPM kick-off everyone was introduced to an online directory of the least hazardous chemicals which is included as general information in their binder templates. Sample specifications and contracts for outsourcing application were also included. This was also updated and sent out in 2013 to all customers.

ASSIST DISTRICTS IN CREATING WRITTEN POLICIES AND PROCEDURES REGARDING PESTICIDE USE THAT MEET OR EXCEED THE REQUIREMENTS IN STATE REGULATION 94.715 — PEST MANAGEMENT FOR SCHOOLS

- From the survey they identified where opportunities for improvement existed (~ 50% of clients).
- Wisconsin Department of Public Instruction implemented an Indoor Environmental Quality program for districts in 2012 that included several policies, including IPM. CESA 10 wrote 50+ plans and continues to assist contracted districts to ensure that plans meet the statute.
- IPM trained consultants offer sample policies and procedures in quarterly on-site meetings with districts.

INCREASE THE NUMBER OF CONTRACTED SCHOOL DISTRICTS (84) WITH AT LEAST 1 STATE CERTIFIED PESTICIDE APPLICATOR

- Assisted staff from 38 school districts (exceeded the goal of 32) in becoming certified pesticide applicators.

INCREASE SCHOOL SPECIFIC IPM TRAINING OPPORTUNITIES

- Kick-off meetings held in January and August 2013.
- Distributed IPM information and presented at the Wisconsin Association of School Business Officials State Education - Convention (Jan. 2013), Facilities Conference (Feb. 2013), Spring Conference (May 2013), Fall Conference (Oct. 2013) and Spring Conference (Spring 2014).
 - Getting IPM as a regular topic at these conferences (to the point where they invite IPM experts and topics as opposed to other topics) is a major culture change and a significant outcome.
- Presented at Buildings and Grounds meetings March 2013 and Spring 2014 Buildings and Grounds meetings reaching 86 facilities/buildings and grounds staff from 67 districts.
- General safety training presented at the start of each school year now includes IPM (as requested by 106 contracted clients statewide—over 50% of districts requested and received in 2013/2014).